



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 4617

SERIAL NUMBER 09/286,160	FILING DATE 04/05/1999  RULE	CLASS 711	GROUP ART UNIT 2187	ATTORNEY DOCKET NO. PD26112
-----------------------------	---------------------------------------	--------------	------------------------	-----------------------------------

APPLICANTS

THEODORE E. BRUNING III, COLORADO SPRINGS, CO;  
 RANDAL S. MARKS, COLORADO SPRINGS, CO;  
 JULIA A. HODGES, COLORADO SPRINGS, CO; GERALD L. GOLDEN, COLORADO SPRINGS, CO;  
 RYAN J. JOHNSON, COLORADO SPRINGS, CO;  
 BERT MARTENS, MONUMENT, CO;  
 KAREN E. WORKMAN, ELBERT, CO;  
 SUSAN G. ELKINGTON, COLORADO SPRINGS, CO;  
 RICHARD F. LARY, COLORADO SPRINGS, CO;  
 JESSE YANDELL, COLORADO SPRINGS, CO;  
 STEPHEN SICOLA, MONUMENT, CO;  
 ROGER OAKLEY, COLORADO SPRINGS, CO;

\*\* CONTINUING DATA \*\*\*\*\* *KNM*

\*\* FOREIGN APPLICATIONS \*\*\*\*\* *KNM*

IF REQUIRED, FOREIGN FILING LICENSE GRANTED  
 \*\* 05/04/1999

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY CO	SHEETS DRAWING 3	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 6
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met After Allowance	EXAMINER'S SIGNATURE <i>[Signature]</i>	INITIALS <i>[Initials]</i>		

ADDRESS  
 HOGAN & HARTSON LLP  
 ONE TABOR CENTER, SUITE 15001  
 1200 SEVENTEETH ST  
 DENVER, CO  
 80202

TITLE  
 APPARATUS AND METHOD FOR PROVIDING VERY LARGE VIRTUAL STORAGE VOLUMES USING  
 REDUNDANT ARRAYS OF DISKS